What is claimed is:

- A method of improving pathogen resistance or tolerance in a plant and its descendant plants comprising integrating into the genome of said plant a gene encoding a fusion protein comprising
 - (a) a first protein or protein domain with anti-pathogenic activity;
 - (b) a linker peptide; and
 - (c) a second protein or protein domain with anti-pathogenic activity.
- 2. The method according to claim 1, wherein further proteins or protein domains with antipathogenic activity are fused to the fusion protein by linker peptides.
- 3. The method according to claim 1, wherein at least one of the proteins or protein domains with anti-pathogenic activity has proteinase inhibitor activity.
- 4. The method according to claim 3, wherein at least one of the proteins or protein domains with anti-pathogenic activity is the proteinase inhibitor Oc-IΔD86.
- 5. The method according to claim 4, wherein at least one of the proteins or protein domains with anti-pathogenic activity is the proteinase inhibitor CpTl.
- 6. The method according to claim 1, wherein the gene is functionally linked to a promoter sequence driving expression preferentially in plant roots.
- 7. The method according to claim 1, wherein the linker peptide comprises an amino acid sequence which is proteolytically cleaved by the plant.
- 8. The method according to claim 1, wherein the linker peptide comprises an amino acid sequence which is proteolytically stable in the plant.
- 9. The method according to claim 1, wherein the linker peptide is characterized by comprising the amino acid sequence QASSYTAPQPQ.
- 10. The method according to claim 7, wherein the linker peptide is characterized by comprising the amino acid sequence VILGVGPAKIQFEG.
- 11. The method according to claim 7, wherein the linker peptide is characterized by comprising the amino acid sequence QASIEGRYTAPQPQ.



- 12. The method according to claim 2 improving nematode resistance or tolerance.
- 13. A DNA molecule capable of encoding a fusion protein comprising
 - (a) a first protein or protein domain with anti-pathogenic activity;
 - (b) a linker peptide; and
 - (c) a second protein or protein domain with anti-pathogenic activity.
- 14. The DNA molecule according to claim 13 wherein the encoded fusion protein comprises further proteins or protein domains with anti-pathogenic activity fused thereto by linker peptides.
- 15. The fusion protein encoded by the DNA molecule according to claims 13.
- 7 16. A plant expressing the fusion protein encoded by the DNA molecule according to claim
 13.
 - 17. Use of the DNA molecule according to claim 13 to improve pathogen resistance or tolerance of a plant and its descendant plants.

857

